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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/880,942	06/15/2001	Canny Wang	BHT-3111-178	5958
7	590 08/27/2002			
DOUGHERTY & TROXELL			EXAMINER	
SUITE 1404 5205 LEESBURG PIKE FALLS CHURCH, VA 22041			DINH, TUAN T	
FALLS CHUR	CH, VA 22041		ART UNIT	PAPER NUMBER
			2827	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Ameliaction No.	A. Control			
*	Application No.	Ap, cant(s)			
Office Action Summary	09/880,942 WANG, CANNY				
omec Action Cummury	Examiner	Art Unit			
The MAILING DATE of this communication a	Tuan T Dinh	with the correspondence address			
Period for Reply	.pp-04. 0 01. 41.0 00.07 01.100.	· · · · · · · · · · · · · · · · · · ·			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may reply within the statutory minimum of od will apply and will expire SIX (6) M tute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 1	7 June 2002 .				
2a)⊠ This action is FINAL . 2b)□	This action is non-final.				
3) Since this application is in condition for allo closed in accordance with the practice und Disposition of Claims					
4) Claim(s) 3 is/are pending in the application					
4a) Of the above claim(s) is/are withd	Irawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>3</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9) The specification is objected to by the Exami		water Europinea			
10) The drawing(s) filed on is/are: a) ac	• • • • • • • • • • • • • • • • • • • •	•			
Applicant may not request that any objection to					
11)⊠ The proposed drawing correction filed on <u>17 June 2002</u> is: a)⊠ approved b)□ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the	, .				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.	C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docume	ents have been received.				
2. Certified copies of the priority docume		Application No			
 3. Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a limited 	Bureau (PCT Rule 17.2(a))).			
14) Acknowledgment is made of a claim for dome	•				
a) The translation of the foreign language	provisional application has	been received.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

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DETAILED ACTION

Claim Objections

1. Claim 3 is objected to because of the following informalities:

Claim 3, line 2, change "first and second sides" to -first and second surfaces--.

Claim 3, line 8, change "the first connection legs" to –the at least one first connection leg--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claim 3 is rejected under 35 U.S.C. 102(b) as being anticipated by Boada Fonts (U. S. Patent 5,801,925).

Regarding claim 1, Boada Fonts discloses a three-dimensional disposition structure of an electric board component as shown in figures 6-7 comprising:

a planar electric board (19-figure 6, column 2, line 41) having opposite facing first and second surfaces (see figure 6);

a plurality of first, plane electrical elements (18, column 2, line 31) each having a bottom side and at least one first connection leg (see pin of components 18 through

circuit board 19 in figure 6), mounted on the first surface of the planar electric board (19) such that the bottom side are adjacent to the first surface, and

a plurality of second, elevated electrical elements (12, 26, column 2, lines 19, 49) each having a bottom side and being mounted on the planar electric board by at least one second connection leg (long pins 21 of component 12-figure 7) having a length greater than a length of the at least one first connection leg, whereby each of the plurality of second electrical elements is disposed so that the bottom side is above at least one of the plurality of first, plane electrical elements (see figures 6-7, the pins of elevated components 12, and 26 are long length than the pins of the plane components 18).

Response to Arguments

4. Applicant's arguments filed 6/17/02 have been fully considered but they are not persuasive.

Applicant argues:

- (a) Boada Fonts does not disclose a plurality of first and second electrical elements mounted on a planar electric board.
 - (b) Boada Fonts does not disclose connection legs having different lengths.

Examiner disagrees:

Regarding argument (a), it is clearly shown in figures 6-7 that Boada Fonts teaches a planar circuit board (19) having a plurality of electrical components (18, 12, and 26) mounted on the circuit board. Boada Fonts does teach a plurality of pin through

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hole components (PTH, 12, 18, and 26) having pins mounted through the circuit board (19).

Regarding argument (b), it can be seen in figures 6-7, Boada Fonts does teach the pins (or connection legs) of elevated components (12 and 26) having lengths higher than the pins of plane components (18) disposed on the circuit board (19).

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD August 17, 2002.

KAMAND CUNEO PRIMARY EXAMINER